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APPLICATION NO.	ION NO. FILING DATE		FIRST NAMED INVENTOR	ATT	ORNEY DOCKET NO.	CONFIRMATION NO.		
09/940,917 08/28/2001		08/28/2001	Gurtej Singh Sandhu		303.676US2	6986 .		
21186	7590	11/05/2003			EXAMINER			
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938					VOCKRODT, JEFF B			
MINNEAPOLIS, MN 55402					ART UNIT	PAPER NUMBER		
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DATE MAILED: 11/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

)			<u> </u>		11					
		Application No.		pplicant(s)	[
\ '\		09/940,917	s	SANDHU ET AL.						
	Office Action Summary	Examiner	Δ	rt Unit						
		Jeff Vockrodt		822						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.135(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status										
1)🖂	Responsive to communication(s) filed on 05 S	eptember 2003 .								
2a)⊠	This action is FINAL . 2b) ☐ This	s action is non-final								
3) [closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
	Claim(s) 44,45 and 60-83 is/are pending in the									
	fa) Of the above claim(s) is/are withdraw	n from consideration	n.							
_	Claim(s) is/are allowed.	400:4								
	Claim(s) <u>44,60,62-64,66-68,70-72,74-77,79-81</u>		ed.							
_	Claim(s) <u>45,61,65,69,73,78 and 82</u> is/are object									
Application	Claim(s) are subject to restriction and/or on Papers	·	nt.							
	he specification is objected to by the Examiner.									
10)∐ T	he drawing(s) filed on is/are: a) accept									
44) -	Applicant may not request that any objection to the									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.										
If approved, corrected drawings are required in reply to this Office action.										
12) The oath or declaration is objected to by the Examiner.										
	nder 35 U.S.C. §§ 119 and 120									
	Acknowledgment is made of a claim for foreign	priority under 35 U.	S.C. § 119(a)-(d	l) or (f).						
	All b) Some * c) None of:									
	Certified copies of the priority documents									
	C. Certified copies of the priority documents									
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).										
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
Attachment(s)										
2) D Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) L Notice	rview Summary (PT ce of Informal Pater er:	O-413) Paper No(s at Application (PTO) -152)					

Application/Control Number: 09/940,917

Art Unit: 2822

DETAILED ACTION

This office action is in response to the amendment filed on 9-5-03. Claims 44-45 and 60-83 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 44, 60, 62, 63, 64, 66, 67 68, 70, 71, 72, 74, 75, 76, 77, 79, 80, 81, and 83 are rejected under 35 U.S.C. §§ 102(a), (e) as being anticipated by U.S. Pat. No. 5,644,166 ("Honeycutt").

Honeycutt teaches a contact process that utilizes a TiGe layer (40). A Ge layer (40) is deposited into the contact hole (18, Fig. 5). A Ti layer (48) is deposited over the Ge layer (40, Fig. 6). A TiGe alloy layer (50, 52) is formed that covers the sides and bottom of the contact hole (Fig. 7). The lowest portion (50) of the TiGe alloy layer (50, 52) also contains silicon from the substrate (12). Honeycutt also teaches a substrate (12), an active region (14) of an electrical device, and an insulator (BPSG, silicon dioxide 16). Every VLSI contains transistors.

Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter:

The reasons for allowance of claims 45, 61, 65, 69, 73, 78 and 82 was set forth in the July 17, 2002 office action.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning communications from the examiner should be directed to Jeff Vockrodt at (703) 306-9144 who can be reached on weekdays from 9:30 am to 5:00 pm EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian, can be reached at (703) 308-4905.

The fax numbers for this Group are (703) 305-3432, (703) 308-7722, (703) 305-3431, and (703) 308-7724. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist at (703) 308-0956.

October 28, 2003

J. Vockrodt

AMIR ZAPABIAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800